SERVICE MANUAL

STEREO MUSIC SYSTEM

SANYO

G3001

(ENGLAND)

SPECIFICATIONS

AM TUNER SECTION

Frequency range	MW 535 - 1,605 KHz
	LW 150 - 350 KHz
Usable sensitivity - IHF	500 μV m
Selectivity IHF	Better than 18 dB
Signal to noise ratio	Better than 40 dB

FM TUNER SECTION

Frequency range	88 - 108 MHz
30 dB S N sensitivity	4 μV
Limiting sensitivity	10 μV
Signal to noise ratio	Better than 45 dB 98 MHz
Harmonic distortion	Mono Less than 1 % 100 % mod.
	Stereo Less than 2 % 100 % mod.
Stereo separation	Better than 30 dB at 1000 Hz
Antenna impedance	75 ohm Unbalanced type

AUDIO AMPLIFIER SECTION

Continuous power output RMS 1KHz, both channels driven at impedance 4 ohm	12 W + 12 W
Harmonic distortion	Less than 10 % at rated power output
Frequency response at AUX input	50 Hz - 15000 Hz
Bass control	± 8 dB 100 Hz
Treble control	± 8 dB 10 KHz
Signal to noise ratio	PHONO Better than 55 dB
	AUX Better than 60 dB
PHONO equalization curve	RIAA standard

TURNTABLE SECTION

Turntable speeds	33-⅓ & 45 r.p.m.
W w and flutter	0.25 % RMS.
Stylus	R S07289

CASSETTE TAPE SECTION

Tape speed	1-⅞ IPS.
Fast forward time	120 sec. C-60 cassette
Rewind time	120 sec. C-60 cassette
Wow & flutter	0.2 % RMS.
Crosstalk	Better than 50dB track to trac
Stereo separation	42 dB at 1000 Hz
Signal to noise ratio	Better than 38 dB

GENERAL

Power source	240 V. 50 Hz
Power consumption	66 W

NOTE : Specifications are subject to change without notice.

ALIGNMENT PROCEDURES

AM IF and RF Alignment

Step	Mode	Frequency of SSG.	Dial setting	Component to be adjusted for max.
1	MW	470 KHz	Lower end	CF2, T5
2	LW	145 KHz	Lower end	T3
3	LW	360 KHz	Upper end	CT5
4	LW	150 KHz	150 KHz	L8
5	LW	350 KHz	350 KHz	CT4
6	MW	515 KHz	Lower end	T4
7	MW	1650 KHz	Upper end	CT6
8	MW	600 KHz	600 KHz	L6
9	MW	1400 KHz	1400 KHz	CT3

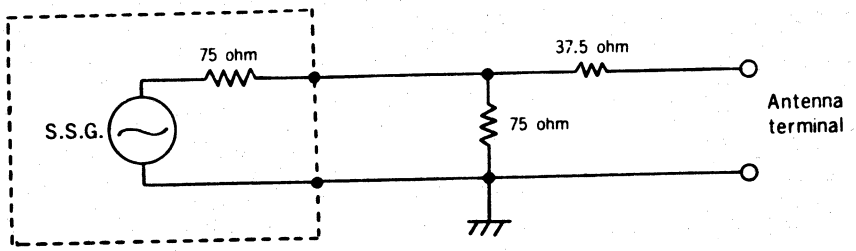
Repeat step 4 and 5. Repeat step 8 and 9
Signal input : Through Loop Antenna.
Modulation 30%

FM IF Alignment

Test Equipment connection	Component to be adjusted
Sweep generator : CV2 Oscilloscope : TP3	T2 : Max. amplitude L4 : Max. linearity

FM RF Alignment

Step	Signal input through Dummy Ant.	Frequency of S.S.G.	Dial setting	Component to be adjusted for max. output
1	60 dBμV 30% Mod.	87.3 MHz	Lower end	L1
2	60 dBμV 30% Mod.	109.0 MHz	Upper end	CT2
3	30 dBμV or less 30% Mod.	90 MHz	90 MHz	T1
4	30 dBμV or less 30% Mod.	106 MHz	106 MHz	CT1



FM Stereo Separation

Step	Subject	Equipment	Test point	Adjustment
1	P.L.L.	Counter	TP5	SVR3 19 KHz
2	Separation	FM Stereo S.G. S.S.G.	Output	SVR4 Max. Separation

ALIGNMENT PROCEDURES

PHONO output level alignment

Input Signal	Component to be Adjusted	Test Point	Adjustment
50mm sec (cutting)	SVR281 (381)	SP terminal (4 ohm Dummy)	5 Volt

Cassette Alignment

(a) Output level alignment

Input Signal	Componet to be Adjusted	Test Point	Adjustment
200 nwb m (Dolby level Calibration)	SVR401 (501)	TP402 (502)	580 mV

(b) Bias current alignment

Setting	Test Point	Component to be Adjusted	Adjustment
Rec mode & Fe_2O_3	TP401 (501)	① L401 (501)	Maximum
		② L401 (501) (Beat cut SW to the other position)	equal with Bias voltage in any position 1 or 2
		③ SVR551 (552)	4.5 mV

(c) Level meter alignment

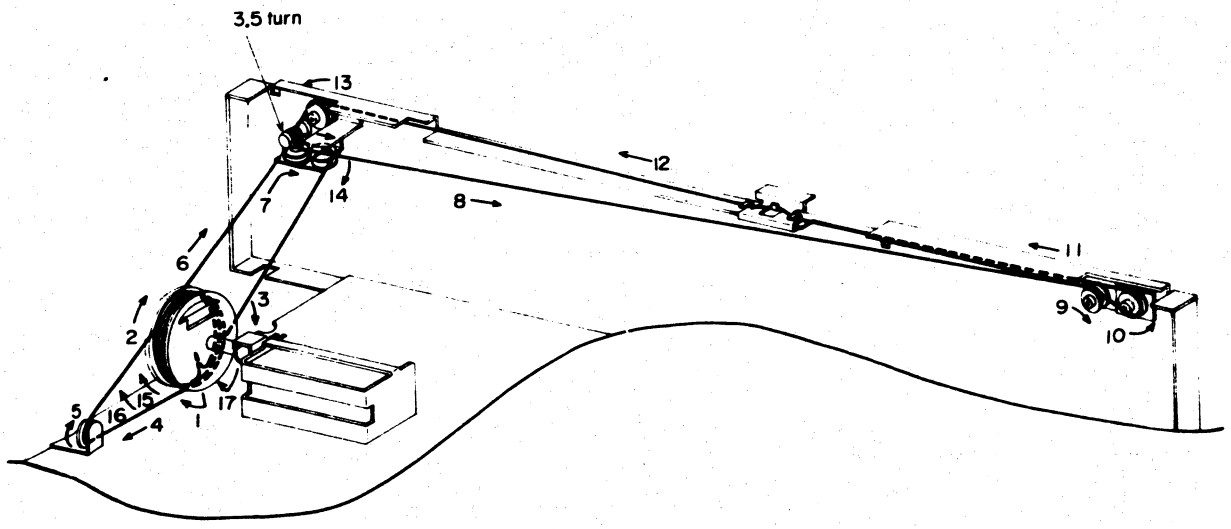
Input signal	Setting Rec volume	Component to be Adjusted	Adjustment
316 mV (AUX)	580 mV at TP402 (502)	SVR403 (503)	+3dB (DOLBY LEVEL) at level meter

(d) R PB level alignment

① Record	② Play back	③ Repeat Step 1, 2 until playback output reading at TP402 (502) is 580 mV by adjusting SVR402 (502)
Input Signal : 316 mV (AUX) Setting Rec Volume : 580 mV at TP402 (502)	Measure the output level at TP402 (502)	

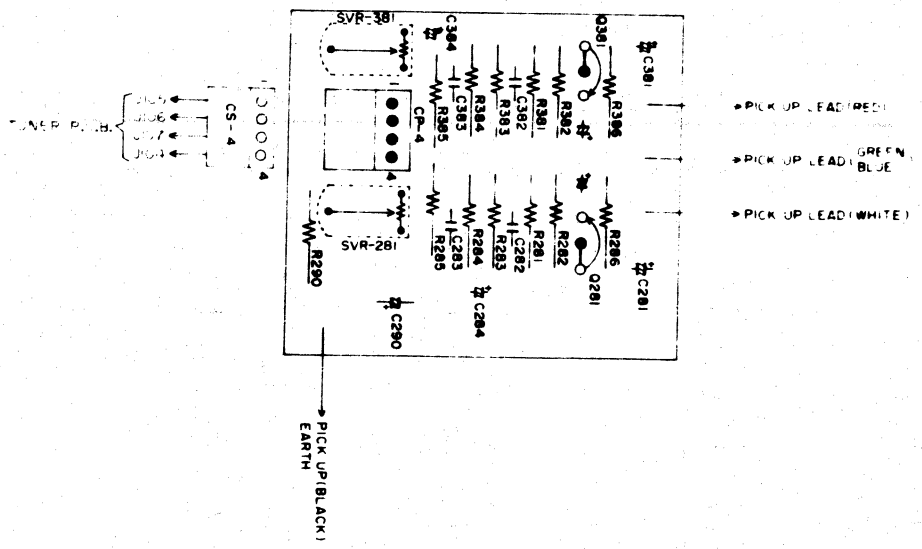
NOTE : ( ) bracket·····Right channel
non bracket·····Left channel

DIAL CORD STRINGING

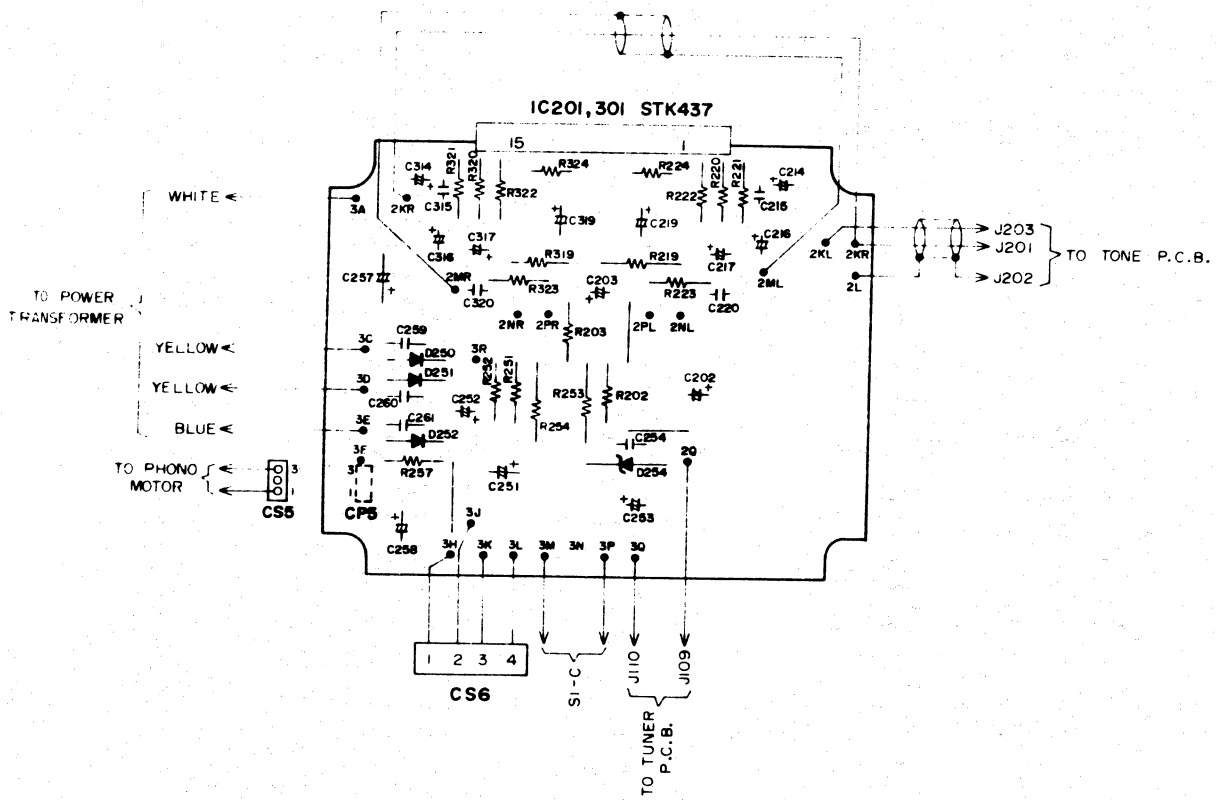


WIRING DIAGRAM

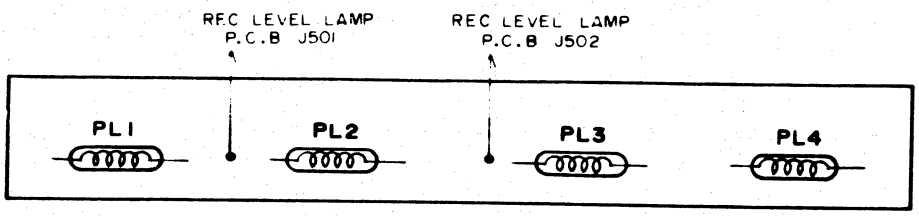
PHONO EQ P.C.B. Bottom



AMP P.C.B. Bottom

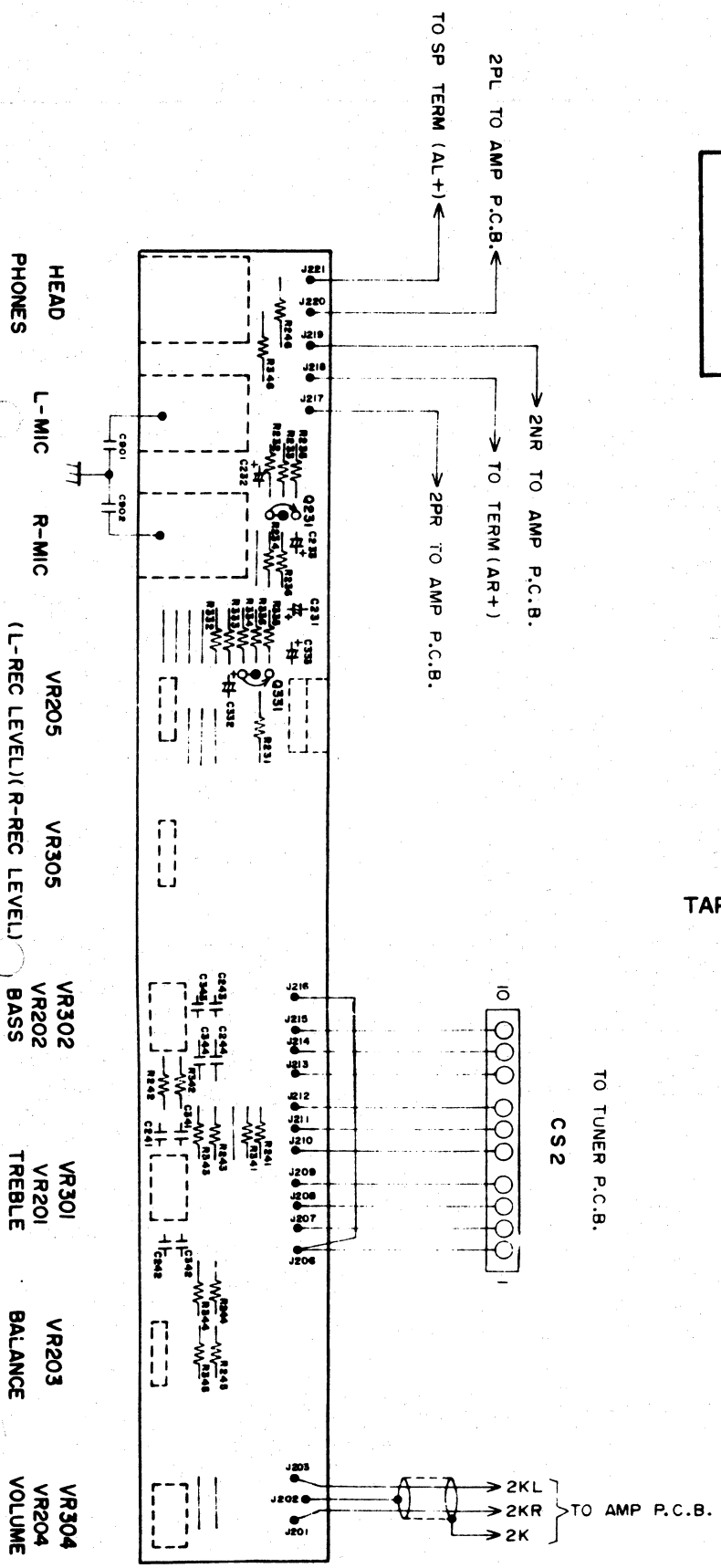


DIAL P.C.B. Bottom

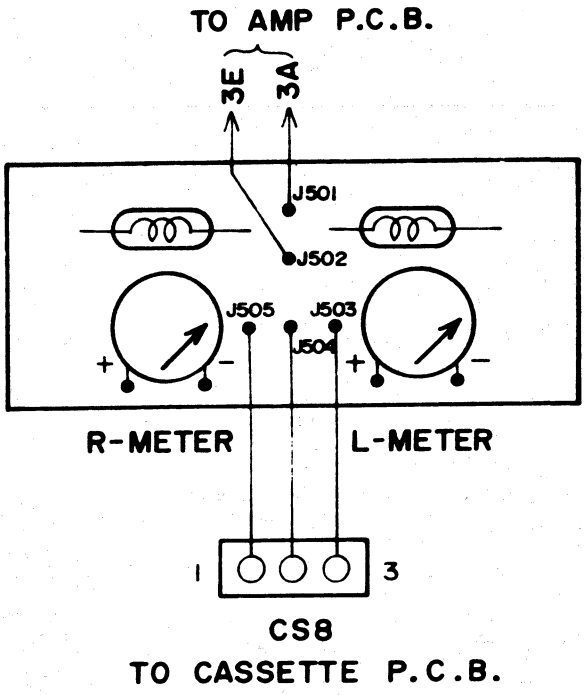


WIRING DIAGRAM

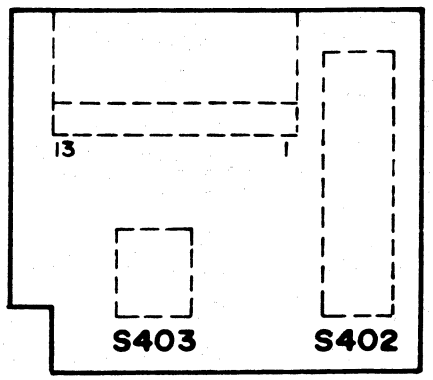
TONE P.C.B. Bottom



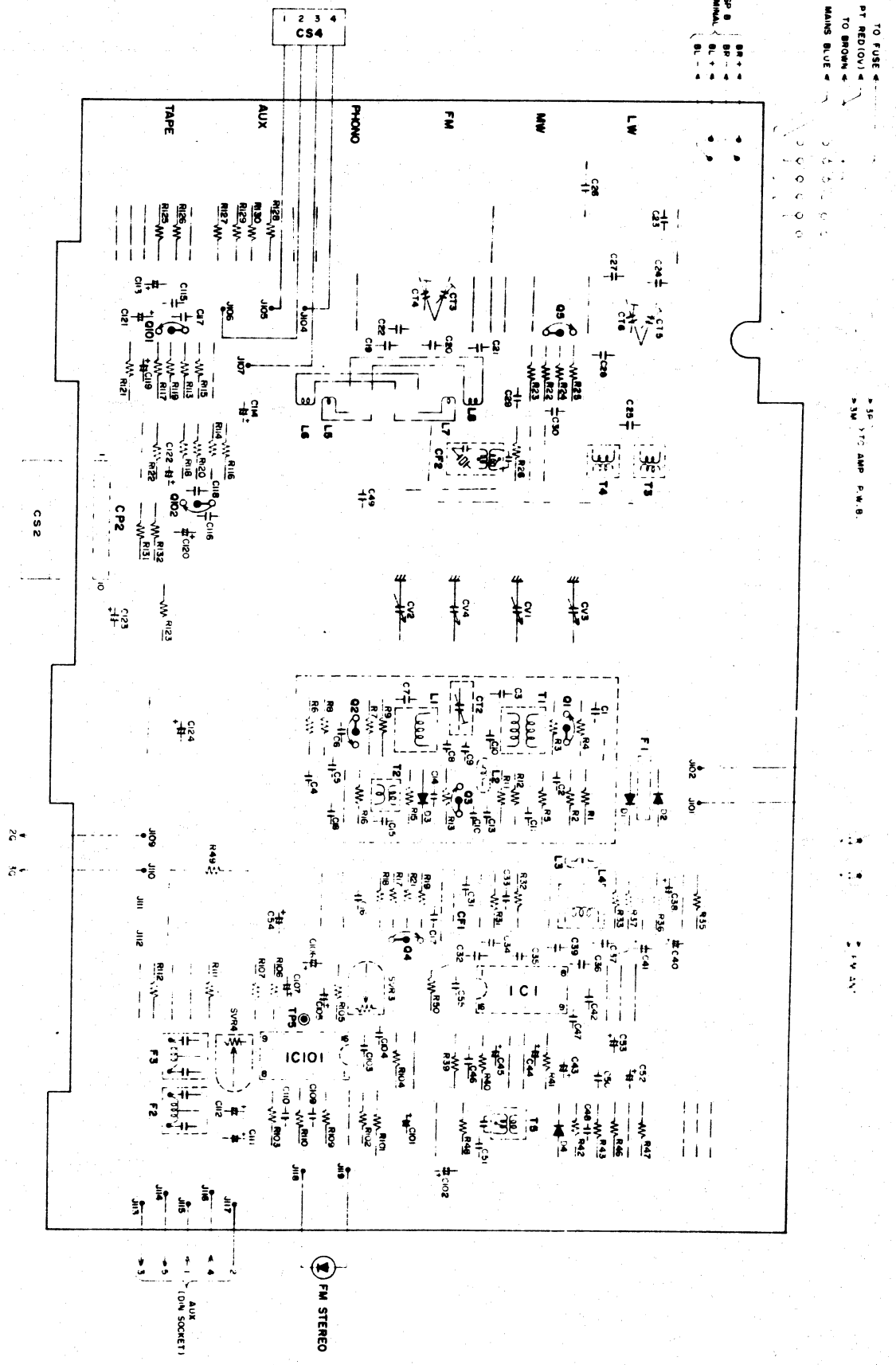
REC LEVEL LAMP P.C.B. Bottom



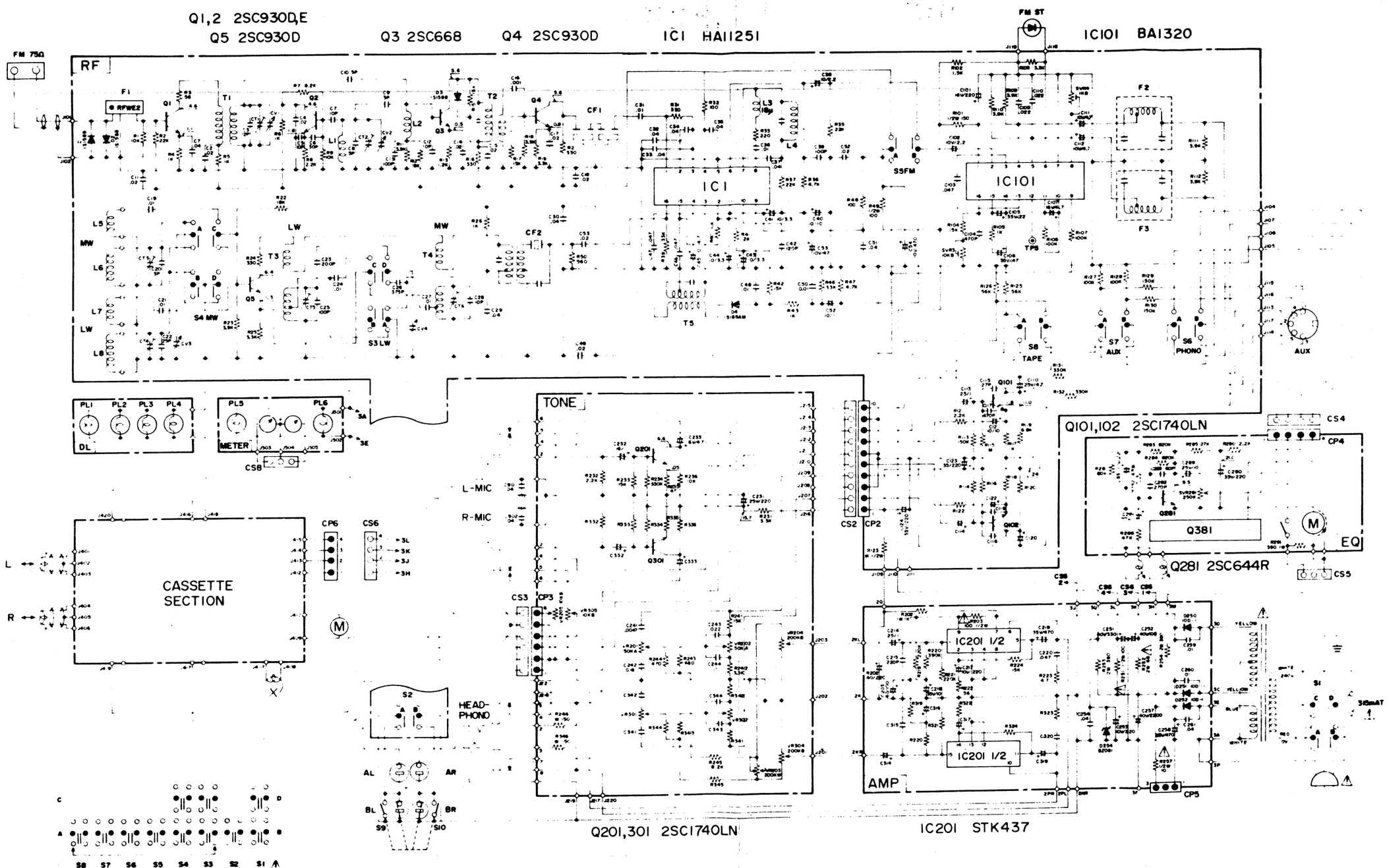
TAPE SELECT P.C.B. Bottom



TUNER P.C.B. Bottom



SCHEMATIC DIAGRAM



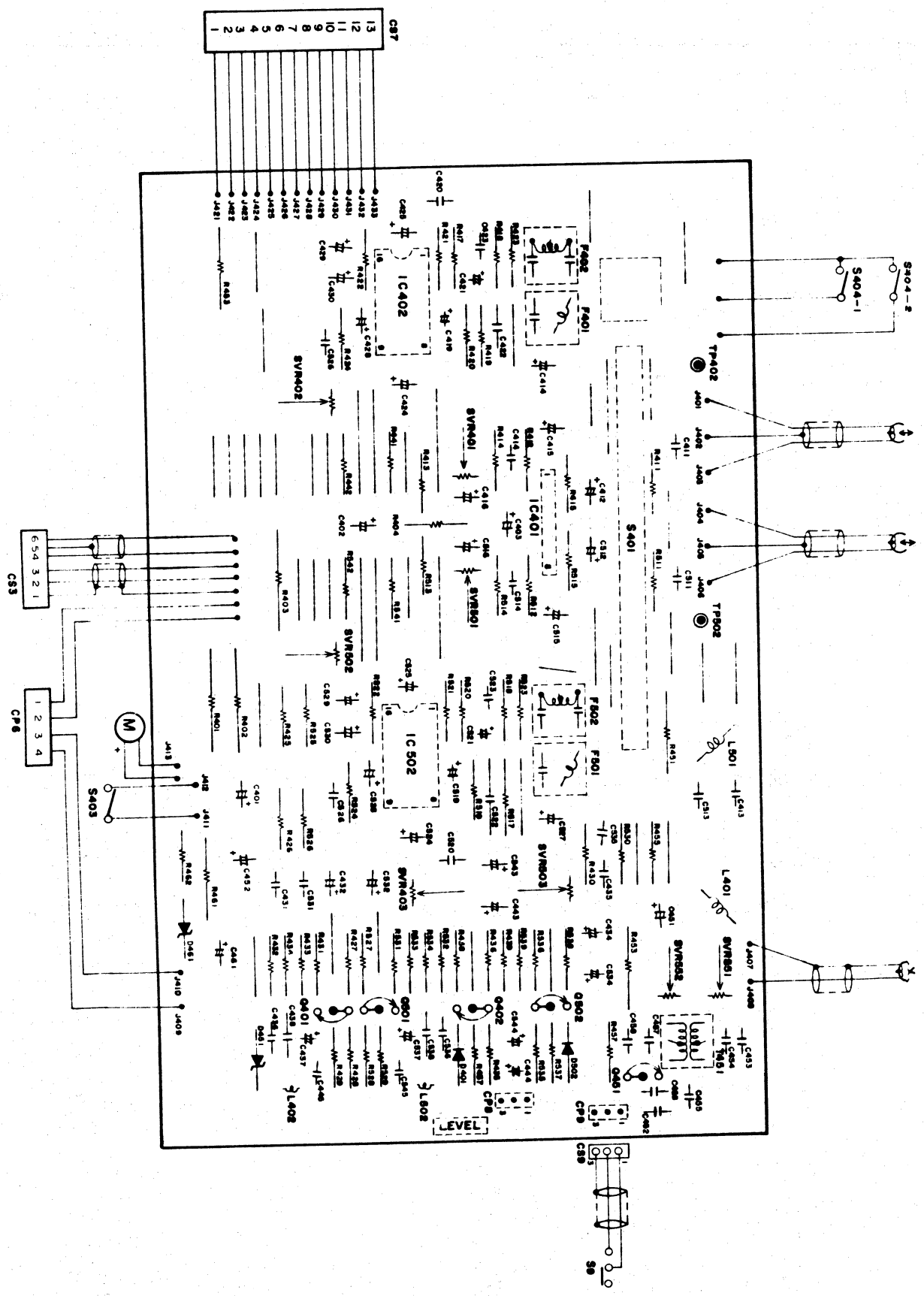
IC NO	Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC1 HA11251	AM	.5	.3	.5	.01	0.0	3.4	3.5	4.7	0.0	0.0	5.8	1.0	0.0	3.0	1.4	.8
	FM	2.5	2.6	2.6	4.7	0.0	2.6	2.8	3.7	0.0	.03	4.6	1.0	0.0	2.4	1.6	.7
IC101 BA1320	FM M	5.7	2.9	2.7	3.5	3.5	8.2	0.0	.5	0.0	2.1	2.1	1.4	2.1	2.1	2.1	2.9
	FM S	5.6	2.9	2.7	3.1	3.3	0.8	0.0	.5	0.0	2.2	2.2	1.4	2.1	2.1	2.1	2.8
IC201 STK437		8.4	7.0	0.0	0.0	20.0	5.1	34	0.0	33	4.2	20.0	0.0	0.0	7.9	8.4	

NOTES

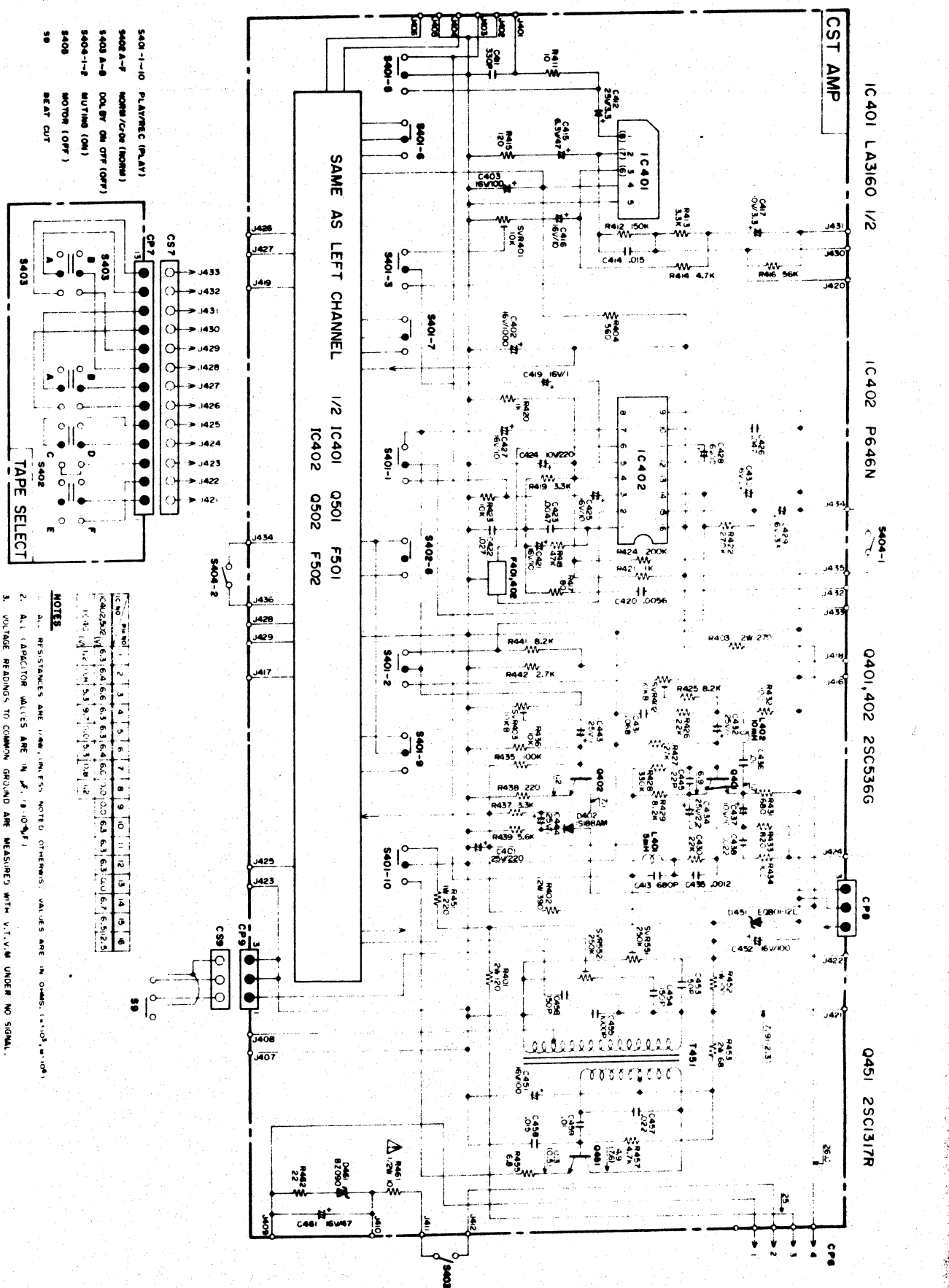
1. ALL RESISTANCES ARE 1/4W, UNLESS NOTED OTHERWISE VALUES ARE IN OHMS. K=10³, M=10⁶
2. ALL CAPACITOR VALUES ARE IN μF. (p=10⁻⁶μF)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M UNDER NO SIGNAL.
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.

WIRING DIAGRAM

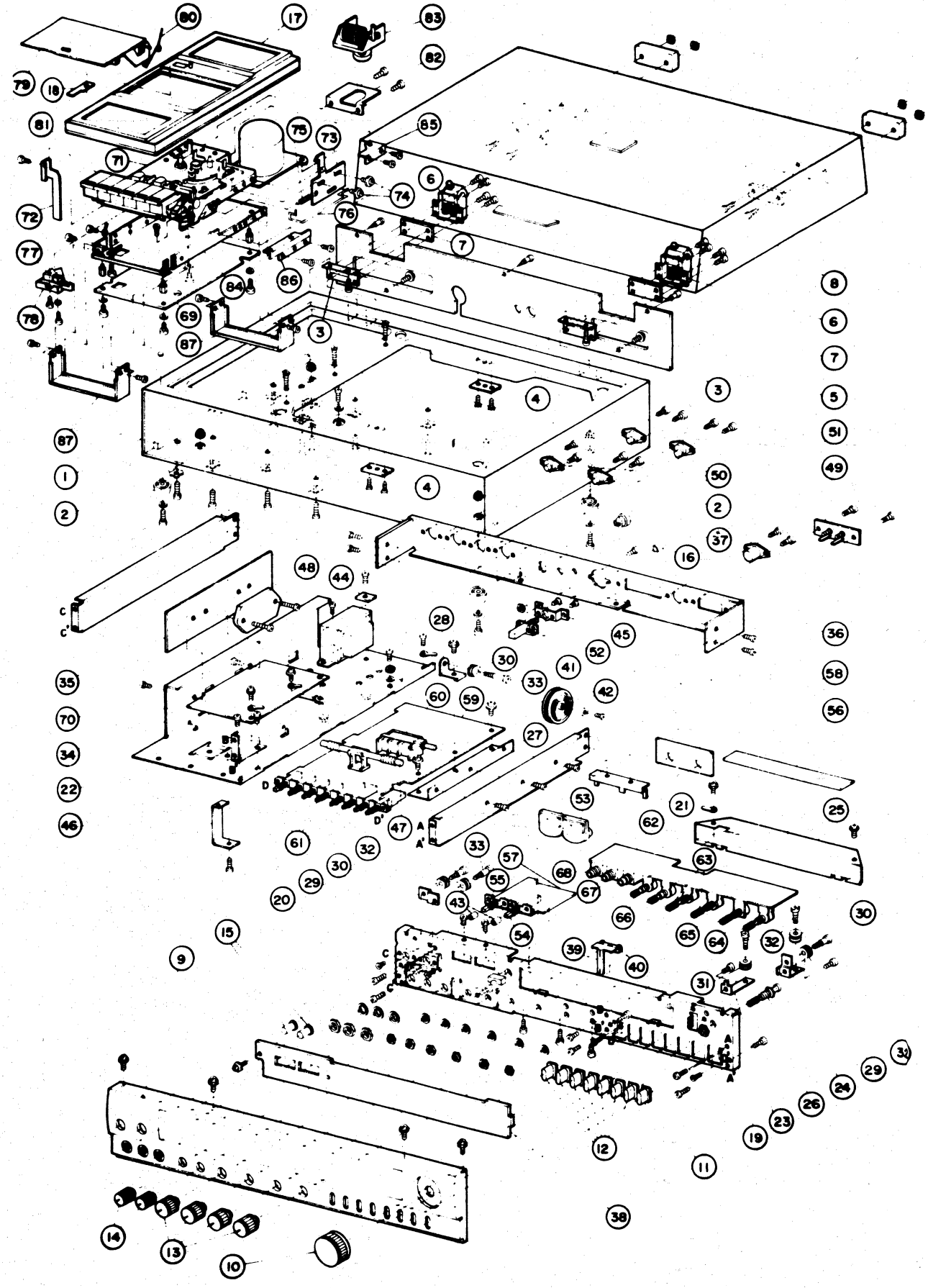
CASSETTE P.C.B. Bottom



SCHEMATIC DIAGRAM


CST AMP
IC401 LA3160 1/2
IC402 P646N
Q401,402 2SC536G
Q451 2SC3117R
SAME AS LEFT CHANNEL 1/2 IC401 Q501 F501
IC402 Q502 F502
TAPE SELECT
S401-1~10 PLAY/REC (PLAY)
S402 A~F NORM/CrO2 (NORM)
S403 A~B DOLBY ON OFF (OFF)
S404-1~2 MUTING (ON)
S408 MOTOR (OFF)
S9 BEAT CUT
NOTES
1. ALL RESISTANCES ARE 1/4W, UNLESS NOTED OTHERWISE. VALUES ARE IN OHMS. (K=10³, M=10⁶)
2. ALL CAPACITOR VALUES ARE IN μF. (P=10⁻⁶μF)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M UNDER NO SIGNAL.
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH LEVELOPMENT OF TECHNOLOGY.

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			PACKAGE PARTS	
		R-4773137	Instruction book	1
		R-4074257	Individual carton	1
		R-4171380	Styro-foam cushion, Set right	1
		R-4171381	Styro-foam cushion, Set left	1
		R-357254	Polyethylene bag, Set	1
			Polyethylene bag, 160×240, AC cord	1
		R-357292	Protection cover, Dust cover	1
		R-357255	Polyethylene bag, Dust cover	1
			Polyethylene bag, 160×240, Instruction book	1
		R-357218a	Polyethylene bag, Turn table	1
		R-4770539	Tag, AC cord	1
			Polyethylene bag, 160×240, Mic	1
			Polyethylene bag, 100×240, T.T. Decoration metal	1
		R-4770579	Label, "MADE IN JAPAN"	1
		R-4770156	Guarantee card	1
		R-4074287	Protector, Turn table	1
		R-4171277	Protector, Pick-up	1
			ACCESSORY PARTS	
		R-S07176	Cassette tape, C-12	1
		R-S07138-3	Microphone	2
			CABINET APPEARANCE PARTS	
1		R-A73404	Cabinet complete	1
3		R-127929a	Metal bracket, Hinge	2*
			Screw, Round Hd. Wood, 3.1×13	4*
2		R-3970762-L	Base	4*
			Screw, Pan Hd. with Washer, "F" M3×10	4*
			Nut, with Washer, M3	4*
4		R-118122a	Metal bracket, Player	2*
			Screw, Round Hd. Wood, 3.1×10	4*
			Nut, with Washer, M3	4*
5		R-4074232	Rear cover	1
			Screw, Pan Hd. with Washer, 3×8, B-tight	2
			Screw, Round Hd. Wood, 3.1×13	3
6		R-S870430	Hinge assembly, Dust cover	2
7		R-3970784	Spacer, Hinge assembly	2
			Screw, Pan Hd., 3×10, B-tight	8
			Screw, Pan Hd., 4×12	4
8		R-A71266	Dust cover assembly	1
9		R-A73405	Front panel assembly	1
			Screw, Pan Hd., 3×8, B-tight	4
			Screw, Pan Hd. with Washer, 3×8, B-tight	4
10		R-3970758a-L	Knob, Tuing	1
11		R-3971633	Knob, Power	1
12		R-3971340-M	Knob, Function	7
13		R-3970790b-L	Knob, Bass Treble Balance Vol.	4
14		R-3970760-L	Knob, REC VOL.	2
15		R-3971770-M	Knob, Dolby Tape select	2
16		R-3971983	Knob, Beat cut	1
17		R-A73406	Cassette panel assembly	1
18		R-1271463	Metal bracket, Cassette lid	1
			Screw, Pan Hd., 3×8, B-tight	1
		R-4772139	Label, Player	2
			Screw, Pan Hd., 4×10	6
			Rock Washer, Metal, 4.5×16×0.8	6
			Tap. Screw, Oval Hd., 3×12 Set ~ Cabinet	3
			CHASSIS MECHANICAL PARTS	
19		R-1271346	Chassis, Front	1
20		R-1271387	Metal bracket, Pulley mtg.	1
21		R-1271388	Metal bracket, Meter mtg.	1

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CHASSIS MECHANICAL PARTS	
			Screw, Bind Hd., 3×4, B-tight	2
		R-4171778	Cushion, Meter	3
22		R-1271389	Metal bracket, Front chassis	1
			Screw, Pan Hd., 3×4, B-tight	4
23		R-1271390	Metal bracket, Pulley mtg.	1
			Screw, Pan Hd., 3×8, B-tight	1
24		R-1271391	Metal bracket, Pulley mtg.	1
			Screw, Pan Hd., 3×8, B-tight	1
25		R-1270112	Reflection plate, Dial	1
			Screw, Pan Hd. with Washer, 3×4, B-tight	2
26		R-S871624	Shaft assembly, Tuning	1
		R-1271392	Chassis, Side	2
			Screw, Pan Hd., 3×8, B-tight	8
27		R-1271393	Metal bracket, P.C.B. mtg.	1
			Screw, Pan Hd., 3×6, B-tight	3
28		R-1270113	Metal bracket, Variable capacitor	1
			Screw, Pan Hd., 3×6, B-tight	1
29		R-245215	Pulley, φ14×3.5	2
30		R-357400	Pulley, φ14×3.7	3
31		R-325017	Pulley	1
32		R-147054-1	Pulley shaft, φ4×10.2	4
33		R-147054-2	Pulley shaft, φ4×13.5	2
34		R-1270114d	Chassis, Center	1
		R-4072289	Spacer, Fuse holder	1
		R-3971488	Cover, Fuse	1
		R-4772630	Label, Fuse	1
35		R-2671091a	Heat sink, IC	1
			Screw, Pan Hd., 3×6	2
36		R-1270115d	Chassis, Rear	1
		R-127494	Spacer, Bushing	1
37		R-377042	Nylon bushing	1
38		R-387874	Dial scale	1
			Screw, Pan Hd. with Washer, 3×8, B-tight	1
		R-447843	Lamp holder, FM STEREO	1
39		R-387875	Pointer	1
40		R-127140	Slide, Pointer	1
			Screw, Flat Hd., 2×4 Pointer ~ Slide	2
41		R-3970582	Drum, VC	1
			Screw, Pan Hd. with Washer, 2.6×6	1
42		R-157189	Coil spring, Dial cord	2
			Dial cord string, φ0.5×1820mm	
		R-1270984	Shield plate, Tuner P.C.B.	1
43		R-4171489	Cushion, Push switch	2
44		R-1270676	Washer, Power trans	2
		R-347021	Spacer P.C.B.	2
		R-1271429	Metal bracket, Player	1
			Tap. Screw, Pan Hd. with Washer, "F" 4×6	1
		R-4772017	Label, Earth	1
45		R-1270977	Metal bracket, Beat cut SW	1
			Screw, Pan Hd., 3×8	1
			Nut, Hex Hd., M3	1
		R-3971944a	Label, P.C.B. connector	2
46		R-1271546	Metal bracket, Cabinet ~ Center chassis	1
			Screw, Pan Hd., 3×4, B-tight Chassis ~ Chassis	5
			Screw, Pan Hd., 3×10 PHONO EQ P.C.B. mtg.	2
			Screw, Pan Hd. with Washer, 3×6, B-tight Tuner P.C.B. mtg.	3
			Screw, Flat Hd., 3×6 Tuner & Tape select P.C.B. mtg.	4
			Screw, Pan Hd. with Washer, 3×6, B-tight Amp. P.C.B. mtg.	2
		R-4773201	Shield plate, EQ P.C.B.	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CHASSIS ELECTRICAL PARTS	
47	L5.6.7.8	R-W27104	Antenna coil	1
48	⚠	R-W77613	Power transformer	1
			Screw, Pan Hd., 4×6	2
			Nut, Hex Hd., M4	2
	⚠	R-S17261	Fuse, 315 mAT	1
	⚠	R-S1755	Fuse holder	1
			Screw, Pan Hd., 2.6×8, B-tight	1
	⚠	R-237113	Earth terminal	1
	⚠		AC cord, GTBS-3	1
		R-S17263	Connector	4
49		R-S1790	FM ANT terminal	1
			Screw, Pan Hd., 3×6, B-tight	2
50		R-S27058	Jack, Speaker	4
			Screw, Pan Hd., 3×6, B-tight	8
51		R-S27163	Socket, AUX	1
			Screw, Pan Hd., 3×6, B-tight	2
[illegible]	S9	R-S47391-1	Push switch, Beat cut	1
		R-S17243	Cord clip	7
	CS6	R-377068-4	Housing, 4P	1
		R-257184	Terminal, Housing	4
	CS9.5.8	R-S27298-3	Housing, 3P	3
		R-247755	Terminal, Housing	8
	CS2	R-S27298-10	Housing, 10P	1
		R-247755	Terminal, Housing	10
	CS4	R-S27298-4	Housing, 4P	1
		R-247755	Terminal, Housing	4
	CS3	R-S27298-6	Housing, 6P	1
		R-247755	Terminal, Housing	6
	CS7	R-377046a-13	Housing, 13P	1
		R-257149	Terminal, Housing	13
53		R-S57146-4	Indicator	2
	PL1.2.3.4	R-S17205	Pilot lamp, 12V 110mA	4
		R-237050	Eyelet lug, Dial P.C.B.	2
54	S403	R-S47391-1	Push switch, Dolby	1
55	S402	R-S47437	Push switch, Tape select	1
	CP7	R-S27260-13	Plug, 13P, Tape select P.C.B.	1
	PL5, 6	R-S17205	Pilot lamp, 12V 110mA	2
56		R-4170659	Printed circuit board, Dial	1
[illegible]		R-4171674	Printed circuit board, Tape select	1/2
[illegible]		R-4171763	Printed circuit board, REC level lamp	1/2
			RESISTORS	
	R291		Metal oxide film, 390 ohm, ±10%, 1W	1
			CAPACITORS	
	C901, 902		Ceramic, 0.04 mfd, +80 −20%, 50V, FZ	2
			TUNER P.C.B. ASSEMBLY	
59		R-A73407	Circuit board assembly, Tuner	1
60	CT1	R-C1720	Variable capacitor	1
	CV1.2.3.4			
	CT2	R-C0716	Trimmer	1
	CT3.4.5.6	R-C0729	Trimmer	2
	L1	R-W9516	VHF coil	1
	L2	R-W1780	Choke coil, 2.2 μH	1
	L3	R-W1779	Choke coil	1
	L4	R-W5T776	Quad coil	1
	T1	R-W9707	VHF coil	1
	T2	R-W5T766	IF transformer	1
	T3	R-W87008	OSC coil, LW	1
	T4	R-W87002	OSC coil, MW	1
	T5	R-W5T788	IF transformer	1
	F1	R-W1772	Filter	1
	CF1	R-S17146	Ceramic filter	1
	CF2	R-W5CF702	Ceramic filter	1
61	S1-8 ⚠	R-S47439	Push switch	1
	F2, 3	R-M1705	Filter	2

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			TUNER P.C.B. ASSEMBLY	
	SVR3	R-R110724	Preset resistor, 10K-B	1
	SVR4	R-R110727	Preset resistor, 1K-B	1
	CP2	R-S27207-10	Plug, 10P	1
			SEMICONDUCTORS	
IC1			Integrated circuit, HA11251	1
IC101			Integrated circuit, BA1320	1
Q1, 2			Transistor, 2SC930-D, E	2
Q3			Transistor, 2SC668-E	1
Q4, 5			Transistor, 2SC930-D	2
Q101, 102			Transistor, 2SC1740-LN	2
D1, 2, 3			Diode, 1S1588 or 1S2473	3
D4			Diode, 1S188-AM	1
			Light emitting diode, SLP 24B	1
			RESISTORS	
			(Resistors are of carbon type, ±10% allowance and 1/4 W unless otherwise noted.)	
R1, 9, 40			10 K ohm (R25 type)	3
R2, 35, 37			22 K ohm (R25 type)	3
R3			56 ohm (R25 type)	1
R4, 5, 6, 26, 43, 105, 117, 118			1 K ohm (R25 type)	8
R7			8.2 K ohm (R25 type)	1
R8, 121, 122			2.2 K ohm (R25 type)	3
R11			3.9 Kohm (R25 type)	1
R12			18 K ohm (R25 type)	1
R13			1.2 K ohm (R25 type)	1
R15, 17, 42, 104			15 K ohm (R25 type)	4
R16, 21, 31, 24			300 ohm (R25 type)	4
R18, 23, 109, 110, 111, 112			3.9 K ohm (R25 type)	6
R19, 25, 103			3.3 K ohm (R25 type)	3
R22			18 K ohm (R25 type)	1
R131, 132			330 K ohm (R25 type)	2
R32, 48			100 ohm (R25 type)	2
R33			220 ohm (R25 type)	1
R36, 47			4.7 K ohm (R25 type)	2
R39, 46			33 K ohm (R25 type)	2
R41			12 K ohm (R25 type)	1
R106, 107, 127, 128			100 K ohm (R25 type)	4
R102			1.5 K ohm (R25 type)	1
R119, 120			6.8 K ohm (R25 type)	2
R113, 114, 129, 130			150 K ohm (R25 type)	4
R115, 116			1 M ohm (R25 type)	2
R125, 126			56 K ohm (R25 type)	2
R50			560 ohm	1
R49			Solid, 100 ohm, ±10%, 1/2 W	1
R123			Solid, 1 K ohm, ±10%, 1/2 W	1
R101			Solid, 150 ohm, ±10%, 1/2 W	1
			CAPACITORS	
C16			Ceramic, 0.001 mfd, ±10%, 50V, FZ	1
C3			Ceramic, 12 pF, ±10%, 50V, SL	1
C5, 7, 12, 28			Ceramic, 10 pF, ±10%, 50V, SL	4
C6			Ceramic, 30 pF, ±10%, 50V, SL	1
C13, 39			Ceramic, 100 pF, ±10%, 50V, SL	2
C22			Ceramic, 25 pF, ±10%, 50V, SL	1
C42			Ceramic, 120 pF, ±10%, 50V, SL	1
C115, 116			Ceramic, 27 pF, ±10%, 50V, SL	2
C117, 118			Ceramic, 470 pF, ±10%, 50V, YW	2
C2, 4, 14, 15, 17, 18, 11, 49, 52, 53			Ceramic, 0.02 mfd, +80 −20%, 50V, FZ	10
C 29, 30, 51, 32, 33, 34, 35, 37, 1			Ceramic, 0.04 mfd, +80 −20%, 50V, FZ	9
C31, 36			Ceramic, 0.01 mfd, +80 −20%, 50V, FZ	2
C8			Ceramic, 5 pF, ±0.5pF, 50V, CH	1
C10			Ceramic, 5 pF, ±0.5pF, 50V, SL	1
C9, 20			Ceramic, 3 pF, ±0.25pF, 50V, SL	2
C25			Ceramic, 100 pF, ±5%, 50V, SL	1
C19, 21, 24, 27, 48, 50			Mylar, 0.01 mfd, ±20%, 50V	6

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
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PARTS LIST

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			TUNER P.C.B. ASSEMBLY	
	C46. 47		Mylar. 0.047 mfd. ±20%. 50V	2
	C103		Mylar. 0.047 mfd. ±10%. 50V	1
	C109. 110		Mylar. 0.022 mfd. ±10%. 50V	2
	C104		Styrol. 470pF. ±10%. 50V	1
	C23		Styrol. 200pF. ± 5 %. 50V	1
	C26		Styrol. 375pF. ± 5 %. 50V	1
	C54		Electrolytic. 10V 470 mfd	1
	C53		Electrolytic. 10V 47 mfd	1
	C41. 43. 44		Electrolytic. 10V 3.3 mfd	3
	C40. 121. 122		Electrolytic. 10V 10 mfd	3
	C38. 102		Electrolytic. 10V 2.2 mfd	2
	C45. 111. 112		Electrolytic. 10V 4.7 mfd	3
	C52		Electrolytic. 10V 1 mfd	1
	C101		Electrolytic. 16V 220 mfd	1
	C105		Electrolytic. 35V 0.22 mfd. Tantal	1
	C106		Electrolytic. 35V 0.47 mfd. Tantal	1
	C107		Electrolytic. 16V 4.7 mfd. Tantal	1
	C123. 124		Electrolytic. 35V 220 mfd	2
	C113. 114		Electrolytic. 25V 1 mfd	2
	C119. 120		Electrolytic. 25V 4.7 mfd	2
			TONE P.C.B. ASSEMBLY	
62		R–A73408	Circuit board assembly. Tone	1
63	VR201. 301. 202. 302	R–R1167164	Variable resistor. 50K-A×2. Bass Treble	2
64	VR204. 304	R–R1167173-2	Variable resistor. 200K-B×2. Vol.	1
65	VR203	R–R1167161	Variable resistor. 200K-W. Balance	1
66	VR205. 305	R–R1167028-1	Variable resistor. 10K-B. REC Vol.	2
67		R–S27209a	Mic jack	2
68		R–S27210a	Headphone jack	1
	CP3	R–S27260-6	Plug. 6P	1
			SEMICONDUCTORS	
	Q201. 301		Transistor. 2SC1740-LN	2
			RESISTORS	
			Resistors are of carbon type. ±10% allowance and ¼W unless otherwise noted.	
	R231. 242. 342		3.3 K ohm R25 type	3
	R232. 332		2.2 K ohm R25 type	2
	R233. 333. 241. 341		15 K ohm R25 type	4
	R234. 334		330 K ohm R25 type	2
	R235. 335		47 ohm R25 type	2
	R236. 336		10 K ohm R25 type	2
	R243. 343		680 ohm R25 type	2
	R244. 344		470 ohm R25 type	2
	R245. 345		8.2 K ohm R25 type	2
	R246. 346		Metal oxide film. 150 ohm. ±10%. 1W	2
			CAPACITORS	
	C241. 341		Mylar. 0.0047 mfd. ±10%. 50V	2
	C242. 342		Mylar. 0.018 mfd. ±10%. 50V	2
	C243. 343		Mylar. 0.022 mfd. ±10%. 50V	2
	C244. 344		Mylar. 0.1 mfd ±10%. 50V	2
	C231		Electrolytic. 25V 220 mfd	1
	C232. 332		Electrolytic. 16V 1 mfd	2
	C233. 333		Electrolytic. 16V 4.7 mfd	2
			CASSETTE P.C.B. ASSEMBLY	
69		R–A73409	Circuit board assembly. Cassette	1
	S401-1～10	R–S47457	Slide switch. REC PLAY	1
	L401. 501	R–W1777	Bias trap coil. 5.4 mH	2
	L402. 502	R–W6724	Coil. 10 mH	2
	T451	R–W87009	OSC coil	1
	F401. 501	R–M1703	Filtter	2
	F402. 502	R–M1704	Filter	2
	SVR401. 501. 402. 502. 403. 503	R–R110724	Preset resistor. 10K-B	6

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CASSETTE P.C.B. ASSEMBLY	
	SVR551. 552	R–R110736	Preset resistor. 250K-B	2
	CP6	R–377069-4	Housing. 4P	1
		R–257183	Terminal. CP6	4
	CP8. 9	R–S27207-3	Plug. 3P	2
			SEMICONDUCTORS	
	IC401		Integrated circuit. LA3160	1
	IC402. 502		Integrated circuit. P646-N	2
	Q401. 501. 402. 502		Transistor. 2SC536-G	4
	Q451		Transistor. 2SC1317-R	1
	D402. 502		Diode. 1S188-AM	2
	D451		Zener diode. EQB01-12L	1
	D461		Zener diode. BZ090	1
			RESISTORS	
			Resistors are of carbon type. ±10% allowance and ¼W unless otherwise noted.	
	R430. 530		22 K ohm R25 type	2
	R434. 534		100 ohm R25 type	2
	R435. 535		100 K ohm R25 type	2
	R436. 536		10 K ohm R25 type	2
	R437. 537		3.3 K ohm R25 type	2
	R438. 538		220 ohm R25 type	2
	R439. 539		5.6 K ohm R25 type	2
	R441. 541		8.2 K ohm R25 type	2
	R442. 542		2.7 K ohm R25 type	2
	R457		4.7 K ohm	1
	R455		6.8 ohm	1
	R453		Solid. 68 ohm. ±10%. ½W	1
	R412. 512		Carbon. 150K ohm. ±5%. ¼W R25 type	2
	R411. 511		Carbon. 10 ohm. ±5%. ¼W R25 type	2
	R415. 515		Carbon. 120 ohm. ±5%. ¼W R25 type	2
	R413. 513		Carbon. 3.3 K ohm. ±5%. ¼W R25 type	2
	R414. 514		Carbon. 4.7 K ohm. ±5%. ¼W R25 type	2
	R404		Carbon. 560 ohm. ±5%. ¼W R25 type	1
	R417. 517		Carbon. 180 ohm. ±5%. ¼W R25 type	2
	R418. 518		Carbon. 47 K ohm. ±5%. ¼W R25 type	2
	R422. 522		Carbon. 270K ohm. ±5%. ¼W R25 type	2
	R423. 523		Carbon. 10 K ohm. ±5%. ¼W R25 type	2
	R424. 524		Carbon. 200K ohm. ±5%. ¼W R25 type	2
	R420. 520. 421. 521		Carbon. 1 K ohm. ±5%. ¼W R25 type	4
	R425. 525. 429. 529		Carbon. 8.2 K ohm. ±5%. ¼W R25 type	4
	R426. 526		Carbon. 22 K ohm. ±5%. ¼W R25 type	2
	R428. 528		Carbon. 330K ohm. ±5%. ¼W R25 type	2
	R427. 527		Carbon. 27 K ohm. ±5%. ¼W R25 type	2
	R431. 531		Carbon. 680 ohm. ±5%. ¼W R25 type	2
	R432. 532		Carbon. 100 ohm. ±5%. ¼W R25 type	2
	R433. 533		Carbon. 820 ohm. ±5%. ¼W R25 type	2
	R419. 519		Metal film. 3.3 K ohm. ±1%. ⅙W	2
	R401		Metal oxide film. 120 ohm. ±10%. 2W	1
	R402		Metal oxide film. 390 ohm. ±10%. 2W	1
	R403		Metal oxide film. 270 ohm. ±10%. 2W	1
	R451		Metal oxide film. 220 ohm. ±10%. 1W	1
	R452		Metal oxide film. 100 ohm. ±10%. 1W	1
	R461	⚠	Metal film. 10 ohm. ±5%. ½W Fuse type	1
	R462		22 ohm	1
	R416. 516		Carbon. 56 K ohm. ±5%. ¼W	2
			CAPACITORS	
	C420. 520		Mylar. 0.0056 mfd. ±5%. 50V	2
	C414. 514		Mylar. 0.015 mfd. ±5%. 50V	2
	C423. 523		Mylar. 0.0047 mfd. ±5%. 50V	2
	C422. 522		Mylar. 0.027 mfd. ±5%. 50V	2
	C426. 526		Mylar. 0.047 mfd. ±5%. 50V	2
	C431. 531		Mylar. 0.068 mfd. ±5%. 50V	2
	C435. 535		Mylar. 0.0012 mfd. ±5%. 50V	2
	C438. 538		Mylar. 0.022 mfd. ±5%. 50V	2

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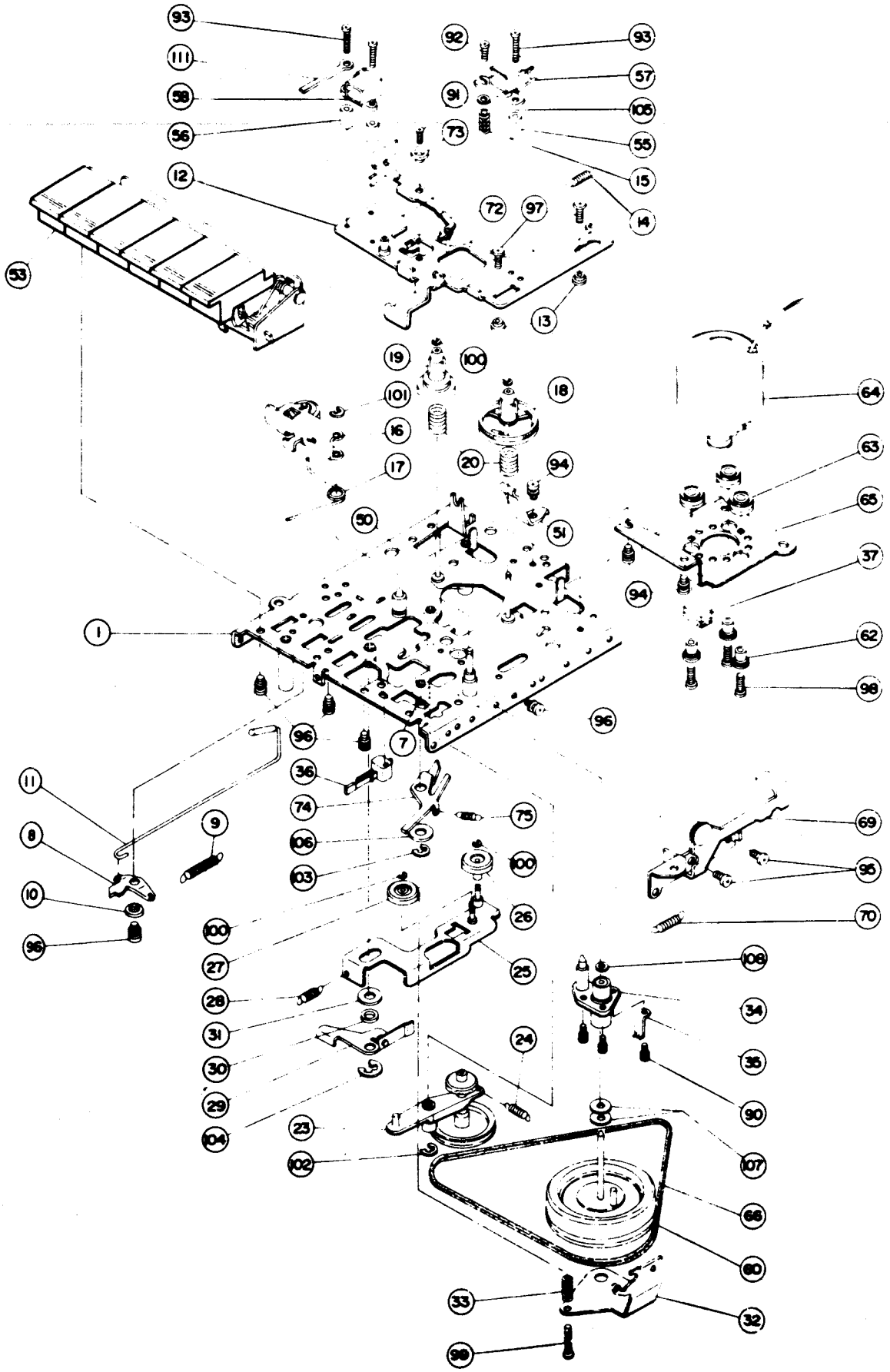
EXPLODED VIEW (CASSETTE MECHANISM)



PARTS LIST (CASSETTE MECHANISM)

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CASSETTE MECHANISM (R-S97063-5)	
1		715 01 81T	Chassis assembly	1
7		630 12 03	Auto lever shaft	1
8		03 03 01	Safety Rec lever A	1
9		48 03 02	Spring coil	1
10		03 03 04	Coller	1
11		715 02 92	Safety Rec arm	1
12		715 06 81	Head panel	1
13		408 04 11	Bush, Head panel	2
14		630 04 03	Head panel spring	1
15		48 04 08	R.P.H. spring	1
16		715 07 81	Pinch roller	1
17		408 05 03	Pinch roller spring	1
--		149 07 91	Reel plate assembly	1
19		58 05 00	Rewind reel plate	1
20		04 05 08	Spring back tension	2
23		630 07 91	RWD idler assembly	1
24		18 05 02B	RWD idler arm spring	1
25		715 05 81	FF idler arm	1
26		257 07 03	Roller take up	1
27		715 07 06	FF idler assembly	1
28		715 05 20	FF idler arm spring	1
29		715 09 03	RWD arm	1
30		11 05 05	Nylon washer	1
31		750 05 09	Nylon washer	1
32		630 09 01	Support flywheel	1
33		48 04 08	Support flywheel	1
34		369 07 01	Shaft bracket flywheel	1
35		446 07 01	Earth plate	1
36		03 16 02	Leaf switch	1
37		652 10 04	Felt	1
		715 09 02	Main plate	1
39		58 04 10	Main plate spring	1
40		408 14 02	Bush auto lever	1
51		652 01 08	Spring plate cassette pushout	1
53		R-A72648	Button select complete	1
55		79 05 01	Bush R P head	1
56		463 04 02	Spacer erase head	2
57		R-S07256-1	Recording Playing head	1
58		R-S07257	Erasing head	1
60		1184 09 01	Flywheel capstan	1
61		716 12 04	Motor pulley	1
62		750 12 10	Spacer motor mounting	3
63		588 09 10	Motor rubber	3
64		R-S57135	Motor	1
65		750 11 01	Motor bracket	1
66		174 10 11	Main belt	1
69		750 13 81	Eject assembly	1
70		96 08 05	Eject lever spring	1
72		408 04 92	Sencer lever	1
73		408 04 14	Bush sencer lever	1

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CASSETTE MECHANISM (R-S97063-5)	
74		408 14 05	Auto lever	1
75		750 14 10	Auto lever spring	1
89			Screw, Pan Hd., M2 × 12	2
90			Tap. Screw, Pan Hd. with Washer, M2 × 5	3
91			Screw, Flat Hd., M2 × 5	1
92			Screw, Pan Hd., M2 × 6	1
93			Screw, Pan Hd., M2 × 11	1
94			Tap. Screw, Pan Hd. with Washer, M2.6 × 4	4
95			Thread Rolling Screw, M2.6 × 4	2
96			Tap. Screw, Pan Hd. with Washer, M2.6 × 5	5
97			Screw, Bind Hd., M2.6 × 4	2
98			Screw, Pan Hd., M2.6 × 8	3
99			Screw, Pan Hd., M2.6 × 12	1
100			E-ring, ϕ1.2	4
101			E-ring, ϕ1.9	1
102			E-ring, ϕ2.3	1
103			Screw, Bind Hd., M2.6 × 5	1
104			E-ring, ϕ4.0	1
105			Washer plane, 2.3 × 4.3 × 0.42	1
107		408 11 20	Nylon washer	1
108			F Washer	1
111			Cord clamper	1
112			Washer, ϕ2.6	2
113			Tap. Screw, Pan Hd. with Washer, M2.6 × 6	1

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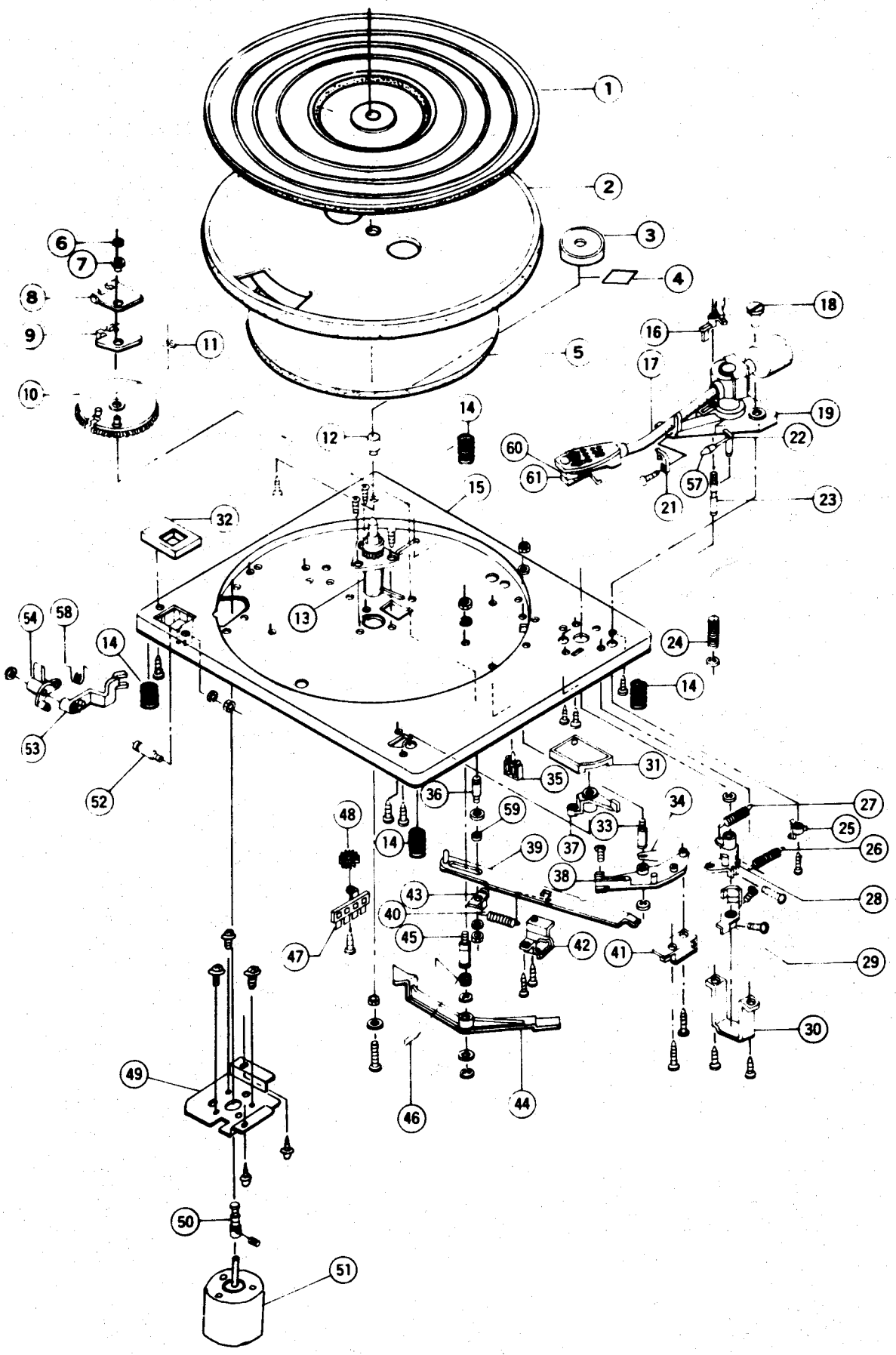
EXPLODED VIEW (PLAYER MECHANISM)



PARTS LIST (PLAYER MECHANISM)

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
		PLAYER MECHANISM (R-S57165)		
1		CD30423	Rubber mat, Turn table	1
2		CD20487	Turn table	1
3		CD43302-1	Adaptor, 45 rpm disc	1
4		CH43179	Polyethylene sheet	1
5		CD44204	Belt	1
6			E-type washer, 3	1
7		CB44117	Gear stop stud	1
8		CA43782	Eccentricity mounting	1
9		CA43783-1	Gear stop arm	1
10		CD30343	R gear	1
11			E-type washer, 4	1
12		CD44244	Pin 3, Adaptor	1
13		C44390S	Shaft bracket assembly, T.T shaft	1
14		CE44246	Spring	1
15		C20612S	Unit plate assembly	1
16		CD44700	Elevation base	1
17		C30655S	Pick-up arm, without cartridge	1
18		CD44393	IFC knob	1
19		CD30422	Base, Pick-up	1
21		CD43845	Lock lever	1
22		CB44281	Rest lever	1
23		CB44265	Elevation axis	1
24		CE44270	Spring	1
25		CD43824	IFC arm	1
26		CE44282	IFC spring	1
27		CE41817	Spring, Pick-up	1
28		CD43811	Shaft bracket, Pick-up	1
29		C44253S	Plate pick-up table assembly	1
30		CA44242-2	Bracket, Plate assembly	1
31		C44250S	Reject cover assembly	1
32		C44272S	Cover assembly, Speed change	1
33		CB42476	Reject lever axis	1
34		CE44271	Torsion spring	1
35		CD45052	Cord clamper	1
36		CB43791	Rotating shaft	1
37		CD44261	Reject knob	1
38		CD44264	Switch arm	1
39		C44256S	Arm return assembly	1
40		CE44269	Spring	1
41		CF30218	Micro switch	1
42		CA44266	Guide, Arm return	1
43		CA44263	Plate	1
44		CD44267-1	Reject lever	1
45		CB44262	Shaft, Reject lever	1
46		CE44268	Torsion spring	1
47		CF43314	Terminal plate, 4P-lug	1
48			Washer, External Tooth Lock, 3	1
49		CA45265	Plate assembly, Motor	1
50		CB45317	Pulley	1
51		CF30663	Motor	1
52		CB44276	Speed change shaft	1
53		CD44277	Speed change lever	1
54		CD44275	Speed change knob	1
57		CD43819	Knob, Rest lever	1
58		CE44278	Torsion spring	1
59		CB43795	Collar, Return plate	1
60		R-S07288	Cartridge assembly	1
61		R-S07289	Stylus	1
		R-2671674	Decoration metal, Turn table	1
			Tap. Screw, Pan Hd., with Washer, "F" 4×16, Player mtg.	2

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